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 PTO/SB/21 (05-04)
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	Application Number	10/532,547	
	Filing Date	4/22/2005	
	First Named Inventor	Plowman	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	295	Attorney Docket Number	EX03-075C-US

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard
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Date	August 4, 2005	Reg. No.	47,937

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of Plowman *et al.*

Application No.: 10/532,547

Filed: April 22, 2005

For: MBMS AS MODIFIERS OF
BRANCHING MORPHOGENESIS
AND METHODS OF USE

Confirmation No.: 6196

Art Unit: Not Assigned

Examiner: Not Assigned

Attorney Docket No.: EX03-075C-US

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with 37 C.F.R. §1.56, this Information Disclosure Statement is being submitted for the above-referenced application.

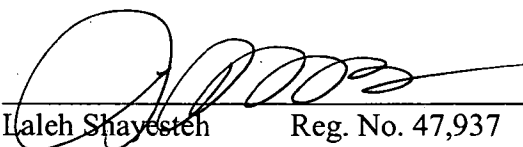
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In accordance with 37 C.F.R. §1.97 (h), the disclosure contained herein is not intended to constitute an admission that any patent, publication, or other information referred to is "prior art" or "analogous art" for this invention.

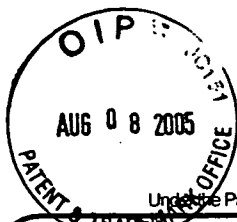
The Commissioner is hereby authorized to charge any required fees, if necessary, to Deposit No. 50-1108.

Respectfully submitted,

Dated: August 4, 2005



Laleh Shayesteh Reg. No. 47,937
Tel: (650) 837-8223; Fax: (650) 837-8234



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STATEMENT BY APPLICANT**

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Sheet 1 of 6

Complete if Known

Application Number 10/532,547

Filing Date 4/22/2005

First Named Inventor Plowman

Art Unit

Examiner Name

Attorney Docket Number EX03-075C-US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	NCBI Annotation Project. Homo sapiens calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma (CAMK2G), mRNA. GI:22051042. 01-AUG-2002	
	2	Xie,S., et al. Homo sapiens polo-like kinase 3 (Drosophila) (PLK3), mRNA. GI:4758015 30-JAN-2004	
	3	Strausberg,R.L., et al Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, gamma (PIP5K2C), mRNA. GI:21322229 07-SEP-2003	
	4	Sagara,N., et al Homo sapiens frizzled homolog 7 (Drosophila) (FZD7), mRNA. GI:4503832 22-APR-2005	
	5	Li,J., et al, Homo sapiens glycogen synthase kinase 3 beta (GSK3B), mRNA. GI:21361339 26-JUL-2005	
	6	Nupponen NN et al Homo sapiens homeodomain-interacting protein kinase 3 (HIPK3), mRNA. GI:11386208 28-NOV-2000	
	7	Price,V.E., et al. Homo sapiens v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog (KIT), mRNA. GI:4557694 01-AUG-2005.	
	8	Pastore,S., et al. Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript variant 1, mRNA. GI:20986528 23-MAY-2005	
	9	Li,B.S., et al. Homo sapiens mitogen-activated protein kinase 10 (MAPK10), transcript variant 1, mRNA. GI:20986504 22-APR-2005	
	10	NCBI Annotation Project. Homo sapiens similar to Mitogen-activated protein kinase 6 (Extracellular signal-regulated kinase 3) (ERK-3) (MAP kinase isoform p97) (p97-MAPK) (LOC160848), mRNA. GI:18581345 01-AUG-2002	
	11	Rai,R., et al. Homo sapiens mitogen-activated protein kinase 6 (MAPK6), mRNA. GI:16306569 14-MAY-2005	

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Date

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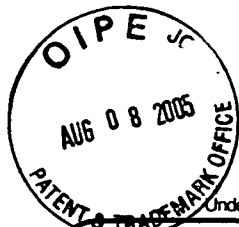
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Sheet 2 of 6

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First Named Inventor Plowman

Art Unit

Examiner Name

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	12	Robinson,M.J. et al. Homo sapiens mitogen-activated protein kinase 4 (MAPK4), mRNA. GI:6715608 29-JUN-2005	
	13	Lu,K.P. et al. Homo sapiens NIMA (never in mitosis gene a)-related kinase 4 (NEK4), mRNA. GI:4507276 22-APR-2005	
	14	Liu,Y., et al. Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2), mRNA. GI:21361305 23-AUG-2004	
	15	Razeghi,P., et al. Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 4 (PDK4), mRNA. GI:4505692 07-APR-2003	
	16	Liu,F., et al. Homo sapiens membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase (PKMYT1), mRNA. GI:21361082 06-APR-2003	
	17	Higuchi,H., et al. Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), transcript variant 2, mRNA. GI:4506056 23-DEC-2003	
	18	Tanimura,A., et al. Homo sapiens protein kinase, cAMP-dependent, catalytic, alpha (PRKACA), mRNA. GI:4506054 07-APR-2003	
	19	Zhang,B., et al. Homo sapiens protein kinase C, alpha (PRKCA), mRNA. GI:4506066 23-DEC-2003	
	20	Shibukawa,Y., Homo sapiens protein kinase C, delta (PRKCD), mRNA. GI:5453969 07-APR-2003	
	21	Rohwer,A., et al. Homo sapiens PTK9L protein tyrosine kinase 9-like (A6-related protein) (PTK9L), mRNA. GI:6005845 07-APR-2003	
	22	Beeler,J.F., et al. Homo sapiens PTK9 protein tyrosine kinase 9 (PTK9), mRNA. GI:4506274 07-APR-2003	

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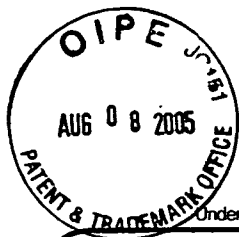
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Sheet 3 of 6

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Application Number 10/532,547

Filing Date 4/22/2005

First Named Inventor Plowman

Art Unit

Examiner Name

Attorney Docket Number EX03-075C-US

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	23	Akula,S.M., et al. Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA. GI:4506400 23-AUG-2004	
	24	Huang,C.Y., et al. Homo sapiens serine/threonine kinase 24 (STE20 homolog, yeast) (STK24), mRNA. GI:20070157 11-JUN-2005	
	25	Osada,S., et al. Homo sapiens serine/threonine kinase 25 (STE20 homolog, yeast) (STK25), mRNA. GI:21361357 06-APR-2003	
	26	NCBI Annotation Project. Homo sapiens serine/threonine kinase 38 like (STK38L), mRNA. GI:22058228 01-AUG-2002	
	27	Tripodis,N., et al. Homo sapiens serine/threonine kinase 38 (STK38), mRNA. GI:6005813 08-APR-2003	
	28	NCBI Annotation Project. Homo sapiens similar to tousled-like kinase 2 (Arabidopsis);protein kinase U-alpha; Tousled-like kinase (Arabidopsis) (LOC220231), mRNA. GI:22052588 01-AUG-2002	
	29	Sillje,H.H., et al. Homo sapiens tousled-like kinase 2 (TLK2), mRNA. GI:11140818 03-FEB-2004	
	30	Yoshizawa-Sugata,N., et al. Homo sapiens CDC7 cell division cycle 7 (S. cerevisiae) (CDC7), mRNA. GI:11038647 11-JUN-2005	
	31	Stevanin,G., et al. Homo sapiens protein kinase, cAMP-dependent, catalytic, gamma (PRKACG), mRNA. GI:15619014 23-APR-2005	
	32	Nghiem,P., et al. Ca2+/calmodulin-dependent protein kinase (EC 2.7.1.123) II gamma chain, splice form B - human. GI:422769 01-DEC-2000	
	33	Xie,S., et al. polo-like kinase 3; cytokine-inducible kinase; proliferation-related kinase; FGF-inducible kinase [Homo sapiens]. GI:4758016 30-JAN-2004	

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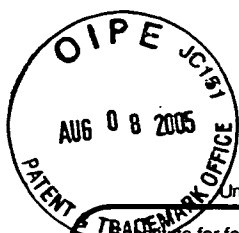
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Sheet 4 of 6	Attorney Docket Number	EX03-075C-US	

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	34	Strausberg,R.L., et al. Phosphatidylinositol-4-phosphate 5-kinase, type II, gamma [Homo sapiens]. GI:20306910 28-JUL-2005.	
	35	Sagara,N.,et al. frizzled 7 [Homo sapiens]. GI:4503833 22-APR-2005	
	36	Lau KF, et al. glycogen synthase kinase 3 beta [Homo sapiens]. GI:4504163 31-OCT-2000	
	37	Nupponen NN et al. homeodomain-interacting protein kinase 3 [Homo sapiens]. GI:11386209 28-NOV-2000	
	38	Price,V.E., et al. v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog precursor [Homo sapiens]. GI:4557695 01-AUG-2005	
	39	Li,L., et al. mitogen-activated protein kinase 1; protein kinase, mitogen-activated 1 (MAP kinase 1; p40, p41); p41mapk [Homo sapiens]. GI:4506087 31-OCT-2000	
	40	Li,B.S., et al. mitogen-activated protein kinase 10 isoform 1 [Homo sapiens]. GI:4506081 22-APR-2005	
	41	NCBI Annotation Project. similar to Mitogen-activated protein kinase 6 (Extracellular signal-regulated kinase 3) (ERK-3) (MAP kinase isoform p97) (p97-MAPK) [Homo sapiens]. GI:18581346 01-AUG-2002	
	42	Rai,R., et al. mitogen-activated protein kinase 6 [Homo sapiens]. GI:4506091 14-MAY-2005	
	43	Robinson,M.J. et al. mitogen-activated protein kinase 4 [Homo sapiens]. GI:4506089 29-JUN-2005	
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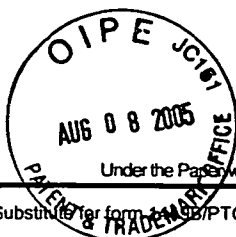
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	46	Savkur,R.S., et al. pyruvate dehydrogenase kinase, isoenzyme 4 [Homo sapiens]. GI:4505693 23-APR-2005	
	47	Liu,F., et al. membrane-associated tyrosine- and threonine-specific cdc2-inhibi [Homo sapiens]. GI:4758928 14-MAY-2002	
	48	Hanamoto,T., et al. cAMP-dependent protein kinase catalytic subunit beta isoform 2 [Homo sapiens]. GI:4506057 29-JUN-2005	
	49	Martin,M.C., et al. cAMP-dependent protein kinase catalytic subunit alpha isoform 1 [Homo sapiens]. GI:4506055 14-JUN-2005	
	50	Smith,J.M., et al. protein kinase C, alpha [Homo sapiens]. GI:4506067 27-JUL-2005	
	51	Shibukawa,Y., et al. protein kinase C, delta [Homo sapiens]. GI:5453970 07-APR-2003	
	52	Rohwer,A., et al. twinfilin-like protein [Homo sapiens]. GI:6005846 14-MAY-2005	
	53	Ojala,P.J., et al. PTK9 protein tyrosine kinase 9; protein tyrosine kinase 9 [Homo sapiens]. GI:4506275 05-OCT-2003	
	54	Mukherjee,R., et al. v-raf-1 murine leukemia viral oncogene homolog 1 [Homo sapiens]. GI:4506401 26-JUL-2005	
	55	Zhou,T.H., et al. serine/threonine kinase 24 (STE20 homolog, yeast); serine/threonine kinase 24 (Ste20, yeast homolog); STE20-like kinase 3 [Homo sapiens]. GI:4505261 19-DEC-2001	

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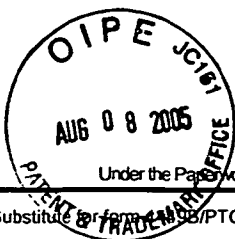
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	56	Osada,S., et al. serine/threonine kinase 25 (Ste20, yeast homolog); sterile 20 (oxidant stress response kinase 1; yeast Sps1/Ste20-related kinase1) [Homo sapiens]. GI:5454174 19-DEC-2001	
	57	Nagase,T., et al. KIAA0965 protein [Homo sapiens]. GI:4589574 16-JUN-1999	
	58	Devroe,E., et al. serine/threonine kinase 38 [Homo sapiens]. GI:6005814 23-APR-2005	
	59	NCBI Annotation Project. similar to tousled-like kinase 2 (Arabidopsis); protein kinase U-alpha; Tousled-like kinase (Arabidopsis) [Homo sapiens]. GI:22052589 01-AUG-2002	
	60	Sillje,H.H., et al. tousled-like kinase 2; serine/threonine kinase; tousled-like kinase [Homo sapiens]. GI:11140819 03-FEB-2004	
	61	Yoshizawa-Sugata,N., et al. CDC7 cell division cycle 7 [Homo sapiens]. GI:4502715 11-JUN-2005	
	62	Stevanin,G., et al. protein kinase, cAMP-dependent, catalytic, gamma [Homo sapiens]. GI:15619015 23-APR-2005	

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